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TITLE : PRODUCTION OF OXALYL FLUORIDE

ABSTRACT : PURPOSE: To produce oxalyl fluoride useful as a raw material for the production of various organofluorine compounds, easily, in high yield, by fluorinating oxalyl chloride with hydrogen fluoride in the presence of pyridine.

CONSTITUTION: Oxalyl fluoride is produced by fluorinating oxalyl chloride with hydrogen fluoride in the presence of a pyridine compound such as pyridine, methylpyridine, dimethylpyridine, ethylpyridine, trimethylpyridine, ethylmethylpyridine, tetramethylpyridine, etc. The concentration of the pyridine compound in hydrogen fluoride is 1~50mol%, preferably 3~25mol%. The hydrogen fluoride solution containing pyridine compound has extremely low vapor pressure compared with hydrogen fluoride and is stable at a relatively high temperature, and accordingly, the evaporation loss of hydrogen fluoride can be reduced.

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